

ANSWERS

Lesson 1.6

1. positive
2. negative
3. none
4. The line should be close to all the points; check students' work.
5. The line should be close to all the points; check students' work.
6. Line b

Reteaching—Chapter 2**Lesson 2.1**

1. $2.45 > -2.45$
2. $\frac{4}{5} < 1\frac{4}{5}$
3. $2.6 = 2\frac{3}{5}$
4. $-2 = -\frac{4}{2}$
5. $-11 > -12$
6. $2\frac{2}{7} > -\frac{16}{7}$
7. $0 < 4.5$
8. $0 > -4.5$
9. $-2.33; 2.33$
10. $-\frac{1}{17}; \frac{1}{17}$
11. $\frac{9}{2}; \frac{9}{2}$
12. $2\frac{6}{13}; 2\frac{6}{13}$
13. $-12.56; 12.56$
14. $12.56; 12.56$
15. $-1200; 1200$
16. $0.13; 0.13$
17. $1356; 1356$

18. $-3\frac{99}{100}; 3\frac{99}{100}$

19. $22.7; 22.7$

20. $-100\frac{1}{2}; 100\frac{1}{2}$

21. 2.8

22. -11

23. 30

24. -4

25. 0

26. 6.25

27. 5

28. 25

29. 4

Lesson 2.2

1. 3

2. -8

3. 1

4. -6

5. -7

6. -1

7. -19

8. -10

9. -42

10. -25

11. -11

12. 6

13. -22

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- 21. 25.6%
- 22. 40%
- 23. 90
- 24. 150%
- 25. 127.5
- 26. 62.5%
- 27. \$32.25
- 28. \$70.80

Lesson 4.3

- 1. 24%
- 2. 32%
- 3. 16%
- 4. 8%
- 5. 40%
- 6. 80%
- 7. about 56%
- 8. about 44%
- 9. 32%
- 10. about 11%
- 11. 16%
- 12. about 9%
- 13. 24%
- 14. about 35%
- 15. 40%
- 16. 60%
- 17. 30%
- 18. 10%

- 19. 60%
- 20. 40%
- 21. 60%
- 22. 40%

Lesson 4.4

- 1. mean = 908; median = 900; mode = 900; range = 334
- 2. mean = 22.75; median = 22; mode = 22; range = 12
- 3. mean = 13.75; median = 14; mode = 14; range = 28
- 4. mean = 8; median = 8; mode = 5 and 10; range = 6
- 5. Frequency Table:

Scores	70	75	80	89	91	95	100
Frequency	II	IIII	II	III	I	II	I

mean = 83.2; median = 80; mode = 75; range = 30

- 6. Frequency Table:

Accidents	0	1	2	3	4	5	6
Frequency	I	II	III	III	I		II

mean = 2.75; median = 2.5; mode = 2 and 3; range = 6

Lesson 4.5

- 1. It could be misleading because the science test is a 200-point test and the mathematics test is a 100-point test. Thus, the scales are different.
- 2. 200 points; 1 person scored 200 points.
- 3. 80 points
- 4. 180 points

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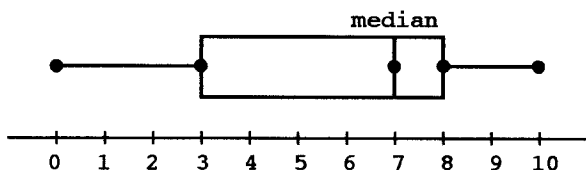
5. 180 people
6. 150 people
7. 13 people
8. rock

Lesson 4.6

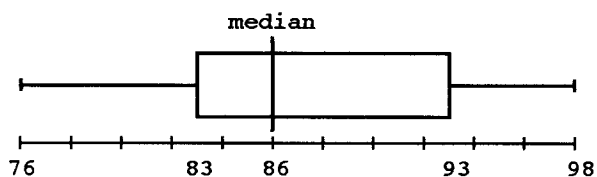
1. 30
2. 84
3. 82.9
4. 80

Stems	Leaves
6	5
7	0 0 2
8	0 0 0 2 6 6
9	0 0 2 4 5 5

5. 0; 10; 7; 3; 8



6. 76; 98; 85.5; 83; 93



Reteaching—Chapter 5

Lesson 5.1

1. function
domain: 1.3, 3.1, 10, 12
range: -1.3, 2.3, 10, 21
2. function
domain: 1, 2, 3, 4, 5, 6
range: 64, 32, 16, 8, 4, 2

3. not a function
domain: -3, -5, 8, 10
range: 7, 8
4. function
domain: 18, 20, -20, -7, 8
range: 11, 12, -8, -1.5

5. $y = 32$ and $x = \frac{3}{2}$

6. $y = -30$ and $x = -\frac{63}{2}$

7. $y = 6x - 1$

8. $y = 4x + 0.4$

Lesson 5.2

1. negative
2. positive
3. undefined

4. 0

5. $\frac{1}{2}$

6. -2

7. 1

8. -1

9. 2

10. $\frac{1}{2}$

11. $\frac{3}{5}$

12. $-\frac{4}{7}$

Lesson 5.3

1. $\frac{4}{3}$

2. $\frac{1}{3}$

3. 2

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4. $\sin 25^\circ \approx 0.423$; $\cos 25^\circ \approx 0.906$

5. $\sin 45^\circ \approx 0.707$; $\cos 45^\circ \approx 0.707$

6. $\sin 90^\circ = 1$; $\cos 90^\circ = 0$

7. 28.7 feet

8. 388.2 meters

9. 319.3 feet

3. H4

4. H2, H4, H6, T1, T2, T3, T4, T5, and T6

5. T2, T4, and T6

6. $\frac{1}{4}$

7. $\frac{7}{11}$

8. $\frac{16}{101}$

Lesson 12.8

1. $\begin{bmatrix} 4.7 & -7.9 & 15 \\ -0.8 & 0 & 1 \end{bmatrix}$

2. Not possible; the matrices do not have the same dimensions.

3. $\begin{bmatrix} 2.5 & 3.5 \\ 0.5 & 7.5 \\ 7 & -5 \end{bmatrix}$

4. $\begin{bmatrix} -1.7 & 2.9 & -1 \\ -6.2 & -3.0 & 7 \end{bmatrix}$

5. Not possible; the matrices do not have the same dimensions.

6. $\begin{bmatrix} -5.5 & 3.5 \\ 4.5 & -5.0 \\ 7 & -3 \end{bmatrix}$

7. $\begin{bmatrix} 3 & -5 & 14 \\ -7 & -3 & -6 \end{bmatrix}$

8. Not possible; the matrices do not have the same dimensions.

9. $\begin{bmatrix} -36 & 36 \\ -144 & 144 \end{bmatrix}$

10. $\begin{bmatrix} -9 & -9 & 3 \\ -21 & 4 & 42 \end{bmatrix}$

Reteaching—Chapter 13

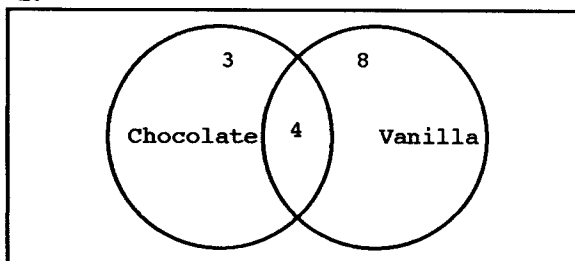
Lesson 13.1

1. H1, H2, H3, H4, H5, H6, T1, T2, T3, T4, T5, and T6

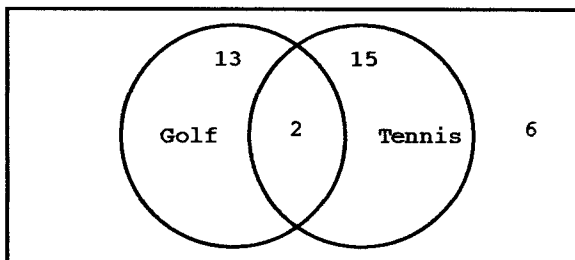
2. H1, H2, H3, H4, H5, H6, and T2

Lesson 13.2

1.



2.



3. 135

4. 126

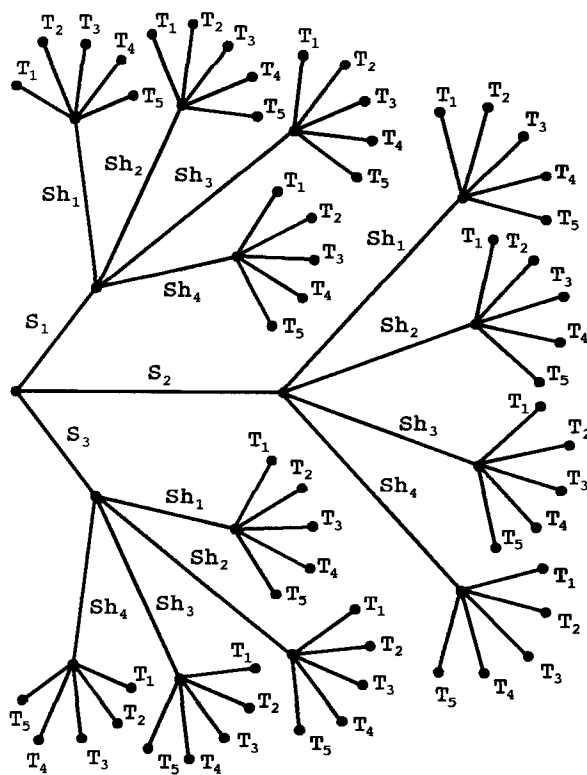
5. 91

6. 170

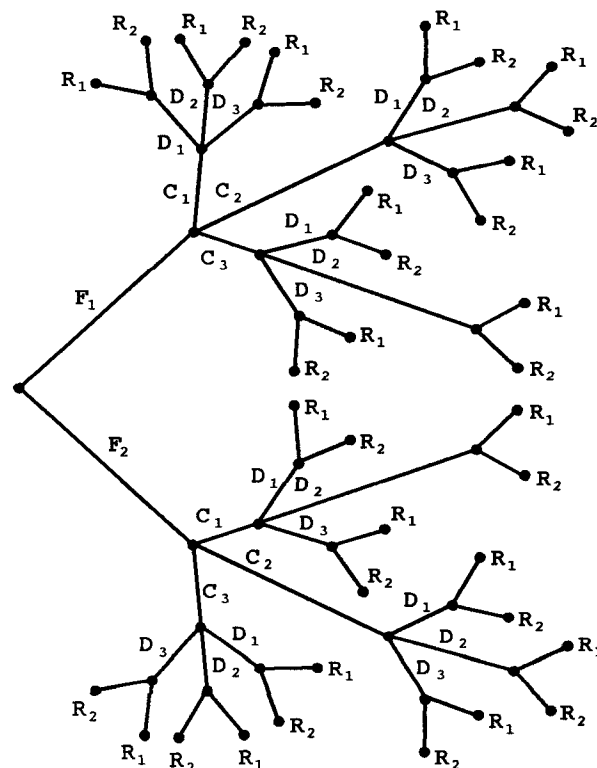
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Lesson 13.3

1. 60



2. 36



3. 6760

4. 100

5. 12

Lesson 13.4

1. no

2. yes

3. yes

4. yes

5. $\frac{1}{4}$

6. $\frac{1}{16}$

7. $\frac{1}{12}$

8. $\frac{1}{100}$

Lesson 13.5

1. Answers may vary. Sample answer: Let heads represent true and let tails represent false. Let each toss represent one trial. Generate 34 tosses (trials). The number of tails generated represents the number of students that guessed correctly.

2. Answers may vary. Sample answer: Let heads represent an even number and let tails represent an odd number. Let each toss represent one trial. Toss 52 times. The number of heads generated divided by 52 represents the probability that she starts with sit-ups.

3. Answers may vary. Sample answer: Use a coin as a random generator. Let heads represent red and let tails represent black. Each toss of the coin represents one trial. Generate 20 trials and record the results.